

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	800	http with transaction	USPAT	OR	ON	2005/06/28 17:51
S2	11807	debug, debugging, debugger	USPAT	OR	ON	2005/06/28 17:51
S3	21384	(graphic\$3 with user with interface)	USPAT	OR	ON	2005/06/28 17:52
S4	795266	S3 gui, display, interface	USPAT	OR	ON	2005/06/28 17:52
S5	664270	S3 gui, display, monitor	USPAT	OR	ON	2005/06/28 17:52
S6	3115329	@ad<"20001003"	USPAT	OR	ON	2005/06/28 17:53
S7	755770	replay\$3, repeat\$3	USPAT	OR	ON	2005/06/28 17:53
S8	1955285	modify, modified, modifying, modification	USPAT	OR	ON	2005/06/28 17:53
S9	3269	http with request	USPAT	OR	ON	2005/06/28 17:53
S10	278	S8 same S9	USPAT	OR	ON	2005/06/28 17:54
S11	114	S7 and S10	USPAT	OR	ON	2005/06/28 17:54
S12	105	S5 and S11	USPAT	OR	ON	2005/06/28 17:54
S13	813	S1 with2	USPAT	OR	ON	2005/06/28 17:54
S14	0	S1 with S2	USPAT	OR	ON	2005/06/28 17:54
S15	118	S1 and S2	USPAT	OR	ON	2005/06/28 17:54
S16	0	S12 and S15	USPAT	OR	ON	2005/06/28 17:54
S17	88	S12 and S6	USPAT	OR	ON	2005/06/28 17:54
S18	3587	http with (transaction, request)	USPAT	OR	ON	2005/06/28 17:55
S19	88	S17 and S18	USPAT	OR	ON	2005/06/28 17:55
S20	5	S2 and S19	USPAT	OR	ON	2005/06/29 10:59
S24	755770	replay\$3, repeat\$3	USPAT	OR	ON	2005/06/29 10:59
S25	1955285	modify, modified, modifying, modification	USPAT	OR	ON	2005/06/29 10:59
S26	3269	http with request	USPAT	OR	ON	2005/06/29 10:59
S27	278	S25 same S26	USPAT	OR	ON	2005/06/29 10:59
S28	278	S26 and S27	USPAT	OR	ON	2005/06/29 10:59
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S30	233	S29 and S28	USPAT	OR	ON	2005/06/29 11:07

S31	47	("6223202" "6223202" "6715129" "6085224" "6226752" "6226752" "6427161" "6854120" "6212640" "6212640" "6535916" "6247056" "6697964" "6779025" "6119247" "6073173" "6147687" "6209029" "5859971" "5867661" "5878213" "5961586" "6101509" "5910986" "6098108" "5742762" "5754774" "6003087" "6145001" "6253326" "6266701" "6301245" "6324582" "6330689" "6336135" "6336137" "6397253" "6397259" "6404762" "6438600" "6456308" "6457066" "6609150" "6701363" "6748554" "6766298" "6883015" "6098093" "6477550" "5838916").pn.	USPAT	OR	OFF	2005/07/01 14:37
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S33	96	S31 S32	USPAT	OR	OFF	2005/07/01 15:02
S34	1228	717/124-135.ccls.	USPAT	OR	OFF	2005/07/01 15:03
S35	809	714/15-18.ccls.	USPAT	OR	OFF	2005/07/01 15:04
S36	751	714/25.ccls.	USPAT	OR	OFF	2005/07/01 15:04
S37	64	714/29.ccls.	USPAT	OR	OFF	2005/07/01 15:04
S38	229	714/31.ccls.	USPAT	OR	OFF	2005/07/01 15:05
S39	1864	709/219.ccls.	USPAT	OR	OFF	2005/07/01 15:06
S40	1834	709/223.ccls.	USPAT	OR	OFF	2005/07/01 15:06
S41	702	709/232.ccls.	USPAT	OR	OFF	2005/07/01 15:06
S42	539	709/249.ccls.	USPAT	OR	OFF	2005/07/01 15:06
S43	7588	S34 S35 S36 S37 S38 S39 S40 S41 S42	USPAT	OR	OFF	2005/07/01 15:06
S44	3115329	@ad<"20001003"	USPAT	OR	ON	2005/07/01 15:06
S45	3115329	S44	USPAT	OR	OFF	2005/07/01 15:06
S46	6470	S43 and S44	USPAT	OR	OFF	2005/07/01 15:06

S47	343	distribut\$4 with debug\$4	USPAT	OR	OFF	2005/07/01 15:07
S48	28645	http	USPAT	OR	OFF	2005/07/01 15:07
S49	88	S47 and S48	USPAT	OR	OFF	2005/07/01 15:07
S50	18	S49 and S46	USPAT	OR	OFF	2005/07/01 15:07
S51	1	"6119247".pn.	USPAT	OR	ON	2005/07/05 13:51
S52	11808342	@ad<"20001003"	US-PGPUB; USPAT; DERWENT	OR	ON	2005/07/05 13:51
S53	84	http with (debug, debugger, debugging)	US-PGPUB; USPAT; DERWENT	OR	ON	2005/07/05 13:52
S54	47	S52 and S53	US-PGPUB; USPAT; DERWENT	OR	ON	2005/07/05 14:00
S55	24143	debug, debugger, debugging	US-PGPUB; USPAT; DERWENT	OR	ON	2005/07/05 14:00
S56	60740	web with server	US-PGPUB; USPAT; DERWENT	OR	ON	2005/07/05 14:00
S57	88	S55 with S56	US-PGPUB; USPAT; DERWENT	OR	ON	2005/07/05 14:00
S58	45	S52 and S57	US-PGPUB; USPAT; DERWENT	OR	ON	2005/07/05 16:01
S59	7047	709/223-224.ccls.	US-PGPUB; USPAT; DERWENT	OR	ON	2005/07/05 16:02
S60	12	S59 and @ad<"20001003" and ((debug,debugger, debugging, correct, correct\$4) with ((http, html, internet) with (request, transaction, transmission)))	US-PGPUB; USPAT; DERWENT	OR	ON	2005/07/05 16:03


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1 [Session 24: software tools: A portable debugger for parallel and distributed programs](#)

Doreen Cheng, Robert Hood

 November 1994 **Proceedings of the 1994 ACM/IEEE conference on Supercomputing**

 Full text available: [pdf\(996.90 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

We describe the design and implementation of a portable debugger for parallel and distributed programs. The design incorporates a client-server model in order to isolate non-portable debugger code from the user interface. The precise definition of a protocol for client-server interaction facilitates a high degree of client portability. Replication of server components permits the implementation of a debugger for distributed computations. Portability across message passing implementations is achieved ...

2 [Experiences with building distributed debuggers](#)

Michael S. Meier, Kevan L. Miller, Donald P. Pazal, Josyula R. Rao, James R. Russell

 January 1996 **Proceedings of the SIGMETRICS symposium on Parallel and distributed tools**

 Full text available: [pdf\(1.34 MB\)](#) Additional Information: [full citation](#), [references](#), [index terms](#)

3 [A distributed debugger for Amoeba](#)

I. J. P. Elshoff

 November 1988 **ACM SIGPLAN Notices , Proceedings of the 1988 ACM SIGPLAN and SIGOPS workshop on Parallel and distributed debugging**, Volume 24 Issue 1


 Full text available: [pdf\(1.15 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

We describe a debugger that is being developed for distributed programs in Amoeba. A major goal in our work is to make the debugger independent of the Amoeba kernel. Our design integrates many facilities found in other debuggers, such as execution replay, breakpointing, and an event-based view of the execution of the target program. This paper discusses the influence of Amoeba's architecture on the attainability of our goals and the desired functionality of the debugger. We also consider su ...

4 [The p2d2 project: building a portable distributed debugger](#)

Robert Hood

 January 1996 **Proceedings of the SIGMETRICS symposium on Parallel and distributed tools**

Full text available:  [pdf\(1.56 MB\)](#)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

5 A paradigm for distributed debugging

Nancy J. Wahl, Stephen R. Schach

April 1992 **Proceedings of the 1992 ACM annual conference on Communications**

Full text available:  [pdf\(813.47 KB\)](#)


Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Three critical problems associated with distributed debugging are controlling the debugging process in the absence of a global clock; maintaining transparency so that the debugger does not change the order or timing of events, and reproducing an execution sequence to be able to verify that a fault has been corrected. A paradigm is put forward that successfully addresses these three problems. To demonstrate the feasibility of this paradigm, an instantiation has been constructed. A descriptio ...

6 Models for visualization in parallel debuggers

C. M. Pancake, S. Utter

August 1989 **Proceedings of the 1989 ACM/IEEE conference on Supercomputing**

Full text available:  [pdf\(1.68 MB\)](#)


Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The complexity of parallel programming has stimulated the development of a variety of debugging tools. This survey of recent research focuses on debugger visualization systems. The effectiveness of such systems is bounded by the degree to which their representations of run-time behavior correlate with the language structures used to incorporate parallelism, as well as the logical framework adopted by the programmer. Current visualization systems are compared with the conceptual models suppo ...

7 A bibliography of parallel debuggers, 1990 edition

Cherri M. Pancake, Sue Utter

January 1991 **ACM SIGPLAN Notices**, Volume 26 Issue 1


Full text available:  [pdf\(1.55 MB\)](#)

Additional Information: [full citation](#), [citations](#), [index terms](#)

8 CORDS: A prototype debugger for Hermes

David Taylor

November 1992 **Proceedings of the 1992 conference of the Centre for Advanced Studies on Collaborative research - Volume 2**

Full text available:  [pdf\(1.10 MB\)](#)


Additional Information: [full citation](#), [abstract](#), [references](#)

Hemes programs consist of many processes interacting with each other through primitive , operations defined as part of the language. Understanding the behaviour of a Hermes program, in order to debug it, requires understanding the interactions between processes. Other aspects of debugging are little different from debugging in a conventional, sequential-programming environment. A debugger prototype has been constructed that provides a display of interprocess interactions in Hermes. This paper desc ...

9 Session 1.1: A prototype debugger for Hermes

David Taylor

November 1992 **Proceedings of the 1992 conference of the Centre for Advanced Studies on Collaborative research - Volume 1**

Full text available:  [pdf\(3.16 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

Hermes programs consist of many processes interacting with each other through primitive

operations defined as part of the language. Understanding the behaviour of a Hermes program, in order to debug it, requires understanding the interactions between processes. Other aspects of debugging are little different from debugging in a conventional, sequential-programming environment. A debugger prototype has been constructed that provides a display of interprocess interactions in Hermes. This paper des ...

10 Debugging distributed object applications with the Eclipse platform

Giuliano Mega, Fabio Kon

October 2004 **Proceedings of the 2004 OOPSLA workshop on eclipse technology eXchange**

Full text available:  [pdf\(244.98 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

Debugging distributed applications is a well known challenge within the realm of Computer Science. Common problems faced by developers include: lack of an observable global state, lack of a central location from where to monitor possible states, non-deterministic execution, heisenbugs, and many others. There are currently many good techniques available which could be employed in building a tool for circumventing some of those issues, especially when considering wide-spread middleware-induced mod ...

11 KDB: a multi-threaded debugger for multi-threaded applications

Peter A. Buhr, Martin Karsten, Jun Shih

January 1996 **Proceedings of the SIGMETRICS symposium on Parallel and distributed tools**

Full text available:  [pdf\(991.10 KB\)](#) Additional Information: [full citation](#), [references](#), [citing](#), [index terms](#)

12 A bibliography of parallel debuggers, 1993 edition

Cherri M. Pancake, Robert H. B. Netzer

December 1993 **ACM SIGPLAN Notices , Proceedings of the 1993 ACM/ONR workshop on Parallel and distributed debugging**, Volume 28 Issue 12

Full text available:  [pdf\(1.17 MB\)](#) Additional Information: [full citation](#), [references](#), [citing](#), [index terms](#)

13 BACI debugger: a GUI debugger for the BACI system

David Strite, Linda Null

March 2002 **Journal of Computing Sciences in Colleges**, Volume 17 Issue 4

Full text available:  [pdf\(175.52 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Due to the increasing importance of concurrent programming and distributed computing systems, possessing a good understanding of concurrency and its impact on process synchronization is essential. Since concurrency introduces design and execution issues not found in sequential programming, to learn about concurrency issues, it is important that students gain hands on experience actually doing concurrent programming. The best way to get this experience is by using a system developed specifically ...

14 Challenges in distributed systems: Operation jump start: a CORDS integration prototype using DCE

Gopi K. Attaluri, Dexter Bradshaw, Patrick J. Finnigant, Nigel Hinds, Michael Kalantar, Kelly A. Lyons, Andrew D. Marshall, Jan K. Pachl, Hong Tran

October 1993 **Proceedings of the 1993 conference of the Centre for Advanced Studies on Collaborative research: distributed computing - Volume 2**

Full text available:  [pdf\(1.26 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)


CORDS is an ongoing project whose goal is to create a prototype environment for

developing and managing distributed applications. This paper describes the *Jump Start Project*, in which mechanisms were added to the existing middleware layer of CORDS and OSF/DCE to assist in developing distributed applications, and the CORDS environment was used to develop distributed applications. The applications developed were an integrated office with a White Pages directory, a mail system, a personal calen ...

15 The PDBG process-level debugger for parallel and distributed programs

João Lourenço, José C. Cunha

August 1998 **Proceedings of the SIGMETRICS symposium on Parallel and distributed tools**

Full text available:  [pdf\(108.07 KB\)](#) Additional Information: [full citation](#), [references](#), [index terms](#)



16 Testing and debugging: Using Hy[±] for network management and distributed debugging

Mariano P. Consens, Masum Z. Hasan, Alberto O. Mendelzon

October 1993 **Proceedings of the 1993 conference of the Centre for Advanced Studies on Collaborative research: software engineering - Volume 1**

Full text available:  [pdf\(1.68 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

A network manager managing a computer network or a programmer attempting to understand and debug a distributed program both must deal with large volumes of data. Visualization is widely believed to help in these and similar tasks. We contend that visualization is indeed useful, but only if accompanied of the following facilities: abstraction, filtering, and layout control. The Hy[±] visualization system and GraphLog query language provide these facilities. They support not ...



17 Report on the Second European SIGOPS Workshop "making distributed systems work"

Sape Mullender

January 1987 **ACM SIGOPS Operating Systems Review**, Volume 21 Issue 1

Full text available:  [pdf\(1.89 MB\)](#) Additional Information: [full citation](#), [index terms](#)



18 The Mantis parallel debugger

Steven S. Lumetta, David E. Culler

January 1996 **Proceedings of the SIGMETRICS symposium on Parallel and distributed tools**


Full text available:  [pdf\(2.19 MB\)](#) Additional Information: [full citation](#), [references](#), [index terms](#)



19 Debugging distributed programs using controlled re-execution

Neeraj Mittal, Vijay K. Garg

July 2000 **Proceedings of the nineteenth annual ACM symposium on Principles of distributed computing**

Full text available:  [pdf\(1.08 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Distributed programs are hard to write. A distributed debugger equipped with the mechanism to re-execute the traced computation in a controlled fashion can greatly facilitate the detection and localization of bugs. This approach gives rise to a general problem, called predicate control problem, which takes a computation and a safety property specified on the computation, and outputs a controlled computation that maintains the property.



20 Software architecture: An integrated distributed systems management architecture

Michael A. Bauer, Pat J. Finnigan, James W. Hong, Jan K. Pahl, Toby J. Teorey

October 1993 **Proceedings of the 1993 conference of the Centre for Advanced Studies on Collaborative research: software engineering - Volume 1**Full text available:  [pdf \(1.08 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

As distributed systems get larger and more complex, there is an urgent need to manage their components in order to ensure reliable and efficient operations. Managing distributed systems entails monitoring the activities of their components and controlling their behavior as needed. This paper examines the requirements of managing distributed systems and proposes an integrated management architecture. The proposed architecture can provide the support for the management of not only the network serv ...

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Relevance scale ☐ ☐ ☐ ☐ ☐**1 [Reusable software components](#)**

Trudy Levine

March 2005 **ACM SIGAda Ada Letters**, Volume XXV Issue 1Full text available: [pdf\(133.07 KB\)](#) Additional Information: [full citation](#), [abstract](#)

This column consists of our yearly listing of sources for reusable software components. As always, no recommendation or guarantee by this column is implied.

2 [Fast detection of communication patterns in distributed executions](#)

Thomas Kunz, Michiel F. H. Seuren

November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research**Full text available: [pdf\(4.21 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

3 [Generating wrappers for command line programs: the Cal-Aggie Wrap-O-Matic project](#)

Eric Wohlstadter, Stoney Jackson, Premkumar Devanbu



July 2001 **Proceedings of the 23rd International Conference on Software Engineering**Full text available: [pdf\(138.41 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)
[Publisher Site](#)

Software developers writing new software have strong incentives to make their products compliant to standards such as CORBA, COM, and Java Beans. Standards-compliance facilitates inter-operability, component-based software assembly, and software reuse, thus leading to improved quality and productivity. Legacy software, on the other hand, is usually monolithic, and hard to maintain and adapt. Many organizations, saddled with entrenched legacy software, are confronted with the need to ...

4 [A web-oriented architectural aspect for the emerging computation tapestry](#)


Kevin Sullivan, Avneesh Saxena


July 2001 **Proceedings of the 23rd International Conference on Software Engineering**

Full text available:  [pdf\(133.72 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)
 [Publisher Site](#)

An emerging tapestry of computations will soon integrate systems around the globe. It will evolve without central control. Its complexity will be vast. We need new ideas, tools and methods to help map, understand and manage this tapestry. We contribute a light-weight architectural aspect that designers can use without compromising their own architectural preferences. Widespread use could help. The idea is for objects to provide web-based interfaces to object-specific meta-data, stat ...


Keywords: architectural aspect, noosphere, software, web interface

- 5 [TraceBack: first fault diagnosis by reconstruction of distributed control flow](#) 
 Andrew Ayers, Richard Schooler, Chris Metcalf, Anant Agarwal, Junghwan Rhee, Emmett Witchel
 May 2005 **ACM SIGPLAN Notices , Proceedings of the 2005 ACM SIGPLAN conference on Programming language design and implementation**, Volume 40 Issue 6

Full text available:  [pdf\(347.77 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Faults that occur in production systems are the most important faults to fix, but most production systems lack the debugging facilities present in development environments. TraceBack provides debugging information for production systems by providing execution history data about program problems (such as crashes, hangs, and exceptions). TraceBack supports features commonly found in production environments such as multiple threads, dynamically loaded modules, multiple source languages (e.g., Java ...


Keywords: fault diagnosis, instrumentation

- 6 [Web-based development of complex information products](#) 
 Roy T. Fielding, E. James Whitehead, Kenneth M. Anderson, Gregory A. Bolcer, Peyman Oreizy, Richard N. Taylor
 August 1998 **Communications of the ACM**, Volume 41 Issue 8

Full text available:  [pdf\(200.01 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

- 7 [Computing curricula 2001](#) 
 September 2001 **Journal on Educational Resources in Computing (JERIC)**

Full text available:  [pdf\(613.63 KB\)](#)  [html\(2.78 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

- 8 [Web-based simulation: Web-based simulation 3: re-introducing web-based simulation](#) 
 Steven W. Reichenthal
 December 2002 **Proceedings of the 34th conference on Winter simulation: exploring new frontiers**

Full text available:  [pdf\(184.66 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

This paper re-introduces web-based simulation from a web development point of view by first comparing the goals, structures, operations, and communication mechanisms on the web with those of current distributed simulation technology, and then synthesizing a new web-based simulation paradigm that more closely resembles the technology found on the web than Java-HLA solutions. The resulting paradigm is expressed through the Simulation

Reference Markup Language (SRML) and Simulation Reference Sim ...

9 Technologies for repository interoperation and access control

Shirley Browne, Jack Dongarra, Jeff Horner, Paul McMahan, Scott Wells

May 1998 **Proceedings of the third ACM conference on Digital libraries**

Full text available:  pdf(1.14 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)



10 Improving problem-oriented mailing list archives with MCS

Robert S. Brewer

June 2000 **Proceedings of the 22nd international conference on Software engineering**

Full text available:  pdf(120.93 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)



Developers often use electronic mailing lists when seeking assistance with a particular software application. The archives of these mailing lists provide a rich repository of problem-solving knowledge. Developers seeking a quick answer to a problem find these archives inconvenient, because they lack efficient searching mechanisms, and retain the structure of the original conversational threads which are rarely relevant to the knowledge seeker. We present a system called MCS which ...

Keywords: archives, collective memory, knowledge condensation, mailing lists

11 The Flux OSKit: a substrate for kernel and language research

Bryan Ford, Godmar Back, Greg Benson, Jay Lepreau, Albert Lin, Olin Shivers

October 1997 **ACM SIGOPS Operating Systems Review , Proceedings of the sixteenth ACM symposium on Operating systems principles**, Volume 31 Issue 5

Full text available:  pdf(2.47 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)



12 System support for pervasive applications

Robert Grimm, Janet Davis, Eric Lemar, Adam Macbeth, Steven Swanson, Thomas Anderson, Brian Bershad, Gaetano Borriello, Steven Gribble, David Wetherall

November 2004 **ACM Transactions on Computer Systems (TOCS)**, Volume 22 Issue 4

Full text available:  pdf(1.82 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)



Pervasive computing provides an attractive vision for the future of computing. Computational power will be available everywhere. Mobile and stationary devices will dynamically connect and coordinate to seamlessly help people in accomplishing their tasks. For this vision to become a reality, developers must build applications that constantly adapt to a highly dynamic computing environment. To make the developers' task feasible, we present a system architecture for pervasive computing, called & ...

Keywords: Asynchronous events, checkpointing, discovery, logic/operation pattern, migration, one.world, pervasive computing, structured I/O, tuples, ubiquitous computing

13 CASE for Web sites: towards an integration of traditional case concepts and novel development tools

Reinhard Jung, Robert Winter

February 1998 **Proceedings of the 1998 ACM symposium on Applied Computing**

Full text available:  pdf(631.10 KB) Additional Information: [full citation](#), [references](#), [index terms](#)




Keywords: CASE, Internet-based systems, requirements, tools

14 Intrusion detection: Countering code-injection attacks with instruction-set randomization



Gaurav S. Kc, Angelos D. Keromytis, Vassilis Prevelakis

October 2003 **Proceedings of the 10th ACM conference on Computer and communications security**

Full text available:  pdf(146.35 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We describe a new, general approach for safeguarding systems against *any* type of code-injection attack. We apply Kerckhoff's principle, by creating process-specific randomized instruction sets (e.g., machine instructions) of the system executing potentially vulnerable software. An attacker who does not know the key to the randomization algorithm will inject code that is invalid for that randomized processor, causing a runtime exception. To determine the difficulty of integrating su ...

Keywords: buffer overflows, emulators, interpreters

15 Searching for deadlocks while debugging concurrent haskell programs



Jan Christiansen, Frank Huch

September 2004 **ACM SIGPLAN Notices , Proceedings of the ninth ACM SIGPLAN international conference on Functional programming**, Volume 39 Issue 9

Full text available:  pdf(125.75 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper presents an approach to searching for deadlocks in Concurrent Haskell programs. The search is based on a redefinition of the IO monad which allows the reversal of Concurrent Haskell's concurrency primitives. Hence, it is possible to implement this search by a backtracking algorithm checking all possible schedules of the system. It is integrated in the Concurrent Haskell Debugger (CHD), and automatically searches for deadlocks in the background while debugging. The tool is easy to use a ...


Keywords: concurrent haskell, deadlock, debugging, detecting deadlocks

16 Web cache prefetching as an aspect: towards a dynamic-weaving based solution



Marc Ségura-Devillechaise, Jean-Marc Menaud, Gilles Muller, Julia L. Lawall

March 2003 **Proceedings of the 2nd international conference on Aspect-oriented software development**

Full text available:  pdf(1.08 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Given the high proportion of HTTP traffic in the Internet, Web caches are crucial to reduce user access time, network latency, and bandwidth consumption. Prefetching in a Web cache can further enhance these benefits. For the best performance, however, the prefetching policy must match user and Web application characteristics. Thus, new prefetching policies must be loaded dynamically as needs change. Most Web caches are large C programs, and thus adding one or more prefetching policies to an exist...

Keywords: Web caches, adaptable software, aspect-oriented programming, code instrumentation, pointcut language

17 Interactive mathematics via the Web using MathML



Francis J. Wright

June 2000 **ACM SIGSAM Bulletin**, Volume 34 Issue 2Full text available:  [pdf\(1.07 MB\)](#) Additional Information: [full citation](#), [abstract](#), [index terms](#)

MathML is a mathematical markup language intended for displaying mathematics in web browsers. At present, it can be used to display mathematics generated dynamically in response to interactive queries only if the browsing and generating facilities are chosen carefully. This paper examines the background and possible options, and describes some of the details of the use of MathML to display the output from a web-based demonstration of an ordinary differential equation solver running in REDUCE ...


18 Application performance and flexibility on exokernel systems

M. Frans Kaashoek, Dawson R. Engler, Gregory R. Ganger, Hector M. Briceño, Russell Hunt, David Mazières, Thomas Pinckney, Robert Grimm, John Jannotti, Kenneth Mackenzie
October 1997 **ACM SIGOPS Operating Systems Review , Proceedings of the sixteenth ACM symposium on Operating systems principles**, Volume 31 Issue 5

Full text available:  [pdf\(2.39 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)**19 Atlas: a case study in building a web-based learning environment using aspect-oriented programming**

Mik Kersten, Gail C. Murphy

October 1999 **ACM SIGPLAN Notices , Proceedings of the 14th ACM SIGPLAN conference on Object-oriented programming, systems, languages, and applications**, Volume 34 Issue 10

Full text available:  [pdf\(2.30 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)


The Advanced Teaching and Learning Academic Server (Atlas) is a software system that supports web-based learning. Students can register for courses, and can navigate through personalized views of course material. Atlas has been built according to Sun Microsystem's Java™ Servlet specification using Xerox PARC's aspect-oriented programming support called Aspect™. Since aspect-oriented programming is still in its infancy, little experience with employing this paradigm is currently ...

Keywords: aspect-oriented programming, distributed systems, software engineering practices, web-based applications

20 Revising old friends: Capriccio: scalable threads for internet services

Rob von Behren, Jeremy Condit, Feng Zhou, George C. Necula, Eric Brewer

October 2003 **Proceedings of the nineteenth ACM symposium on Operating systems principles**

Full text available:  [pdf\(312.83 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper presents Capriccio, a scalable thread package for use with high-concurrency servers. While recent work has advocated event-based systems, we believe that thread-based systems can provide a simpler programming model that achieves equivalent or superior performance. By implementing Capriccio as a user-level thread package, we have decoupled the thread package implementation from the underlying operating system. As a result, we can take advantage of cooperative threading, new asynchronous ...

Keywords: blocking graph, dynamic stack growth, linked stack management, resource-aware scheduling, user-level threads

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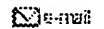
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